

Comparison of MetAP2 Homologues (mouse = SEQ ID NO:12; yeast = SEQ ID NO:14)

1	15	16	30	31	45	46	60	61	75	76	90
mouse	MAGVEQAASFGGHLN	GDLDPDDREEGTST	AEAAKKRRRKKKKG	KGAVSAVQQLDKES	GALVDEVAKQLESQA	LEEKERDDDDDEGDG					90
rat	MAGVEEASFGGHLN	RDLDPPDDREEGTST	AEAAKKRRRKKKKG	KGAVSAGQQLDKES	GTSVDEVAKQLERQA	LEEKEKDDDDDEGDG					90
human	MAGVEEVAASGSHLN	GDLDPDDREEGAAS	AEAAKKRRRKKKKK	KGPSAAGEQEPDKES	GASVDEVARQLERSA	LEDKERDEDDDEGDG					90
yeast	-----	-----	-----	-----	-----	-----	-----	-----	-----	-----	38
91	105	106	120	121	135	136	150	151	165	166	180
mouse	DADGATGKKKKKKK	KRGPKVQTDPPSPVI	CDLYPNGVFPKGQEC	EYPPTQDGRTAAWRT	TSEKKALDQASEEI	WNSFREAAEAHRQVR					180
rat	DGDGAAGKKKKKKK	KRGPRVQTDPPSPVI	CDLYPNGVFPKGQEC	EYPPTQDGRTAAWRT	TSEKKALDQASEEI	WNSFREAAEAHRQVR					180
human	DGDGATGKKKKKKK	KRGPKVQTDPPSPVI	CDLYPNGVFPKGQEC	EYPPTQDGRTAAWRT	TSEKKALDQASEEI	WNSFREAAEAHRQVR					180
yeast	ESKKKKKKKKKKKK	N-----	-----	-----	-----	-----	-----	-----	-----	-----	116
181	195	196	210	211	225	226	240	241	255	256	270
mouse	KYVMSWIKPGMTMIE	ICEKLEDCSRKLIKE	NGLNAG-----	LA	FPTGCSLNNCAAHYT	PNAGDTTVLQYDDIC	KIDFGTHISGRIIDC				263
rat	KYVMSWIKPGMTMIE	ICEKLEDCSRKLIKE	NGLNAG-----	LA	FPTGCSLNNCAAHYT	PNAGDTTVLQYDDIC	KIDFGTHISGRIIDC				263
human	KYVMSWIKPGMTMIE	ICEKLEDCSRKLIKE	NGLNAG-----	LA	FPTGCSLNNCAAHYT	PNAGDTTVLQYDDIC	KIDFGTHISGRIIDC				263
yeast	RAIKDRIVPGMKLMD	IADMIENTTRKYTGA	ENLLAMEDPKSQIG	FPTGLSLNHCAAHFT	PNAGDKTVLKYEDVM	KVDYGVQVNGNIIDS					206
271	285	286	300	301	315	316	330	331	345	346	360
mouse	AFTVTFNPKYDILLT	AVKDATNTGIKCAGI	DVRLCDVGEAIEQVM	ESYEVEIDGKTYQVK	PIRNLNGHSIGPYRI	HAGKTVPIVKGEAT					353
rat	AFTVTFNPKYDILLK	AVKDATNTGIKCAGI	DVRLCDVGEAIEQVM	ESYEVEIDGKTYQVK	PIRNLNGHSIGPYRI	HAGKTVPIVKGEAT					353
human	AFTVTFNPKYDILLK	AVKDATNTGIKCAGI	DVRLCDVGEAIEQVM	ESYEVEIDGKTYQVK	PIRNLNGHSIGPYRI	HAGKTVPIVKGEAT					353
yeast	AFTVSFDPQYDNLILA	AVKDATYTGIKEAGI	DVRLTDIGEAIQVM	ESYEVEINGETIYQVK	PCRNLCGHSIAPYRI	HGGKSVPIVKNGDIT					296
361	375	376	390	391	405	406	420	421	435	436	450
mouse	RMEEGEVYAIETFGS	TGKGWVHDDMECSHY	MKNFDVGHVPIRLPR	TKHLLNVINENFGTL	AFERRWLDRLGESKY	LMALKNLCDLGIVDP					443
rat	RMEEGEVYAIETFGS	TGKGWVHDDMECSHY	MKNFDVGHVPIRLPR	TKHLLNVINENFGTL	AFERRWLDRLGESKY	LMALKNLCDLGIVDP					443
human	RMEEGEVYAIETFGS	TGKGWVHDDMECSHY	MKNFDVGHVPIRLPR	TKHLLNVINENFGTL	AFERRWLDRLGESKY	LMALKNLCDLGIVDP					443
yeast	KMEEGEHFAIETFGS	TGRGYVTAGGEVSHY	ARSAEDHQVMPITLDS	AKNLLKTIDRNFGLT	PFCRRYLDRLGQEKY	LFALNNLVRHGLVQD					386
451	465	466	480								
mouse	YPPLCDIKGSYTAQF	EHTILLRPTCKEVVS	RGDDY--								
rat	YPPLCDIKGSYTAQF	EHTILCAQPVKKLSA	EEMTIKT								
human	YPPLCDIKGSYTAQF	EHTILLRPTCKEVVS	RGDDY--								
yeast	YPPLNDIPGSYTAQF	EHTILLHAHKKEVVS	KGDDY--								

Figure 1

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**MetAP2**

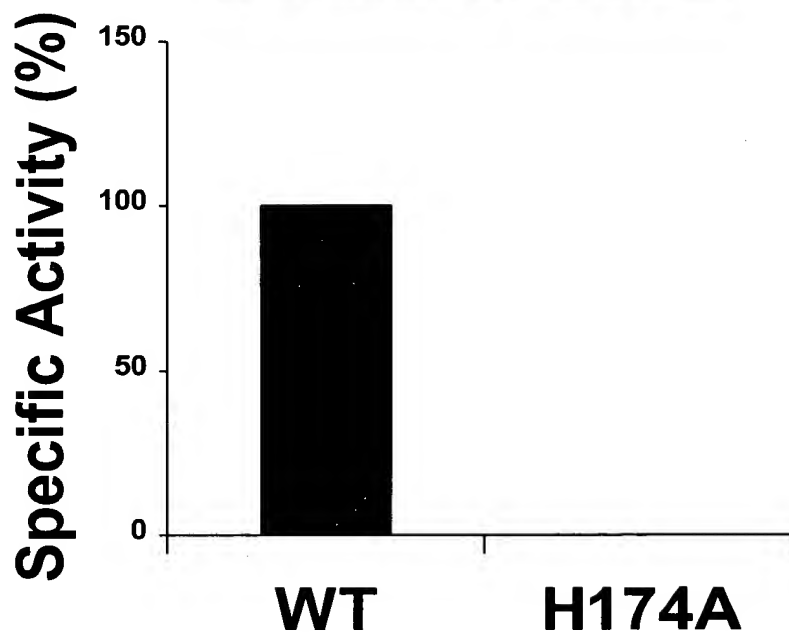
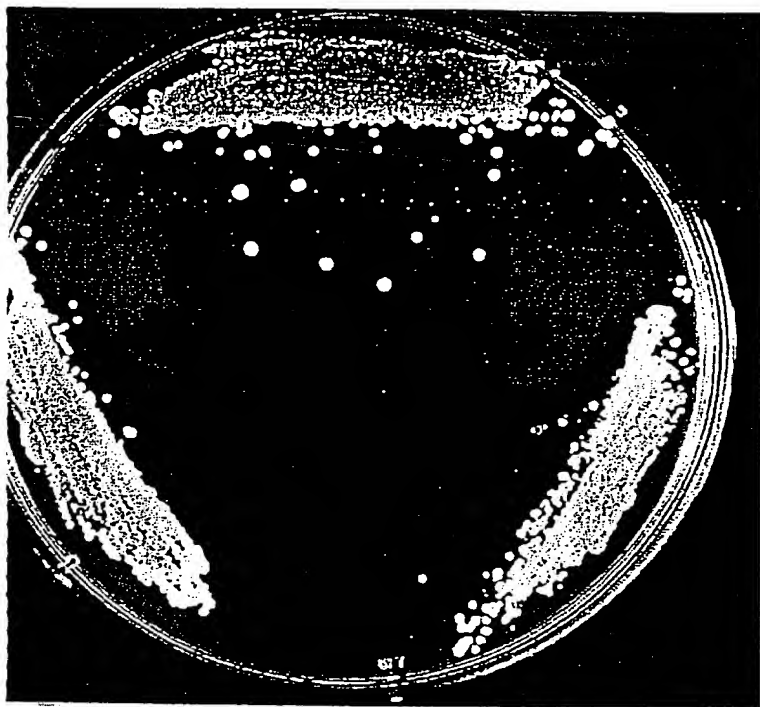
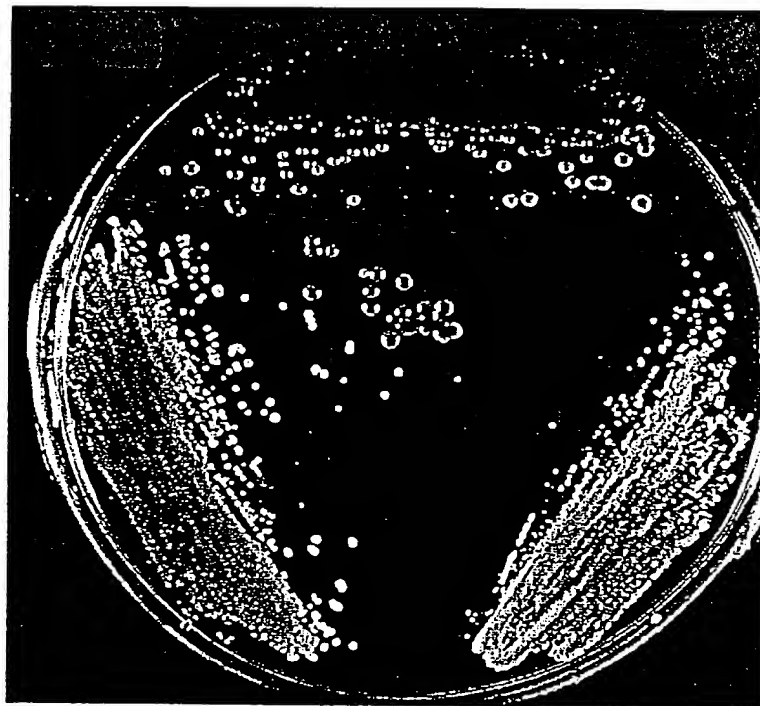


Figure 2



A. Glucose



B. Galactose

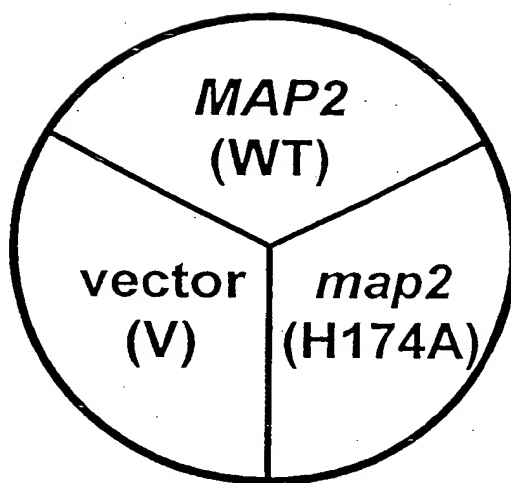


FIGURE 3

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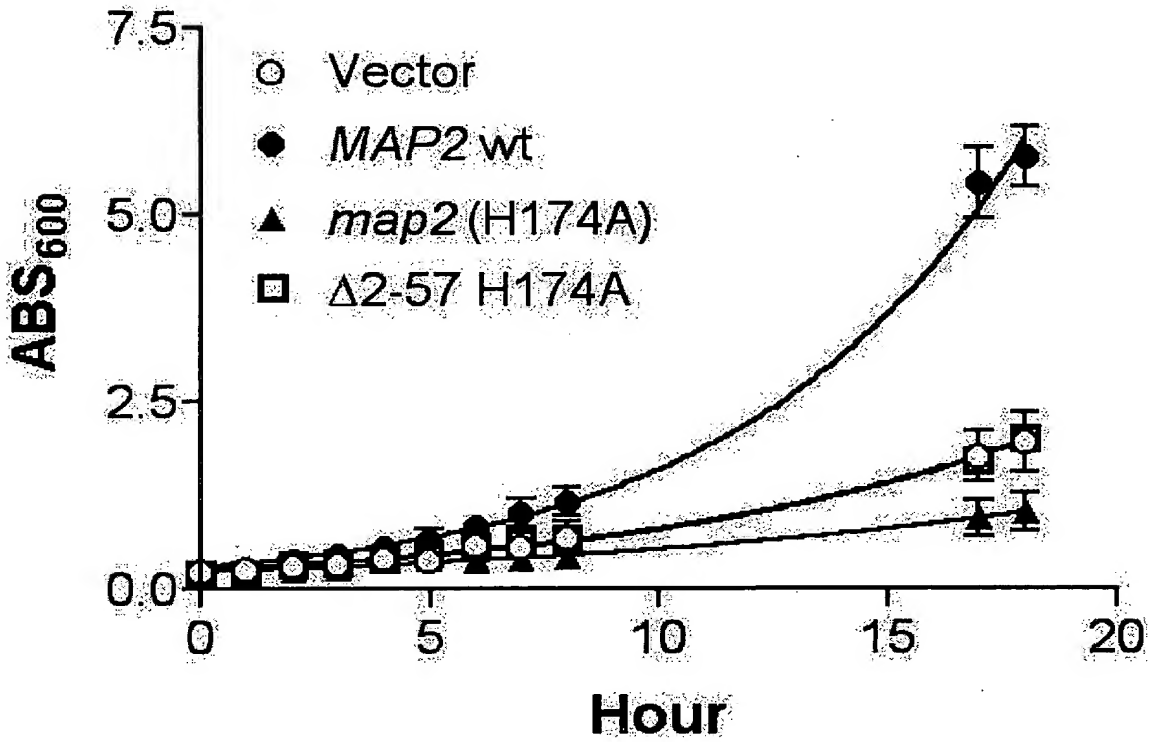
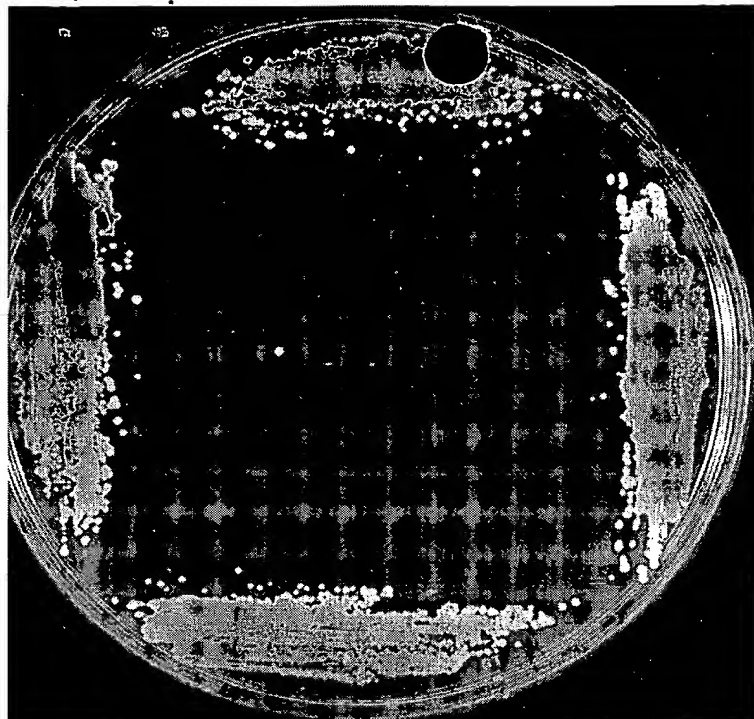
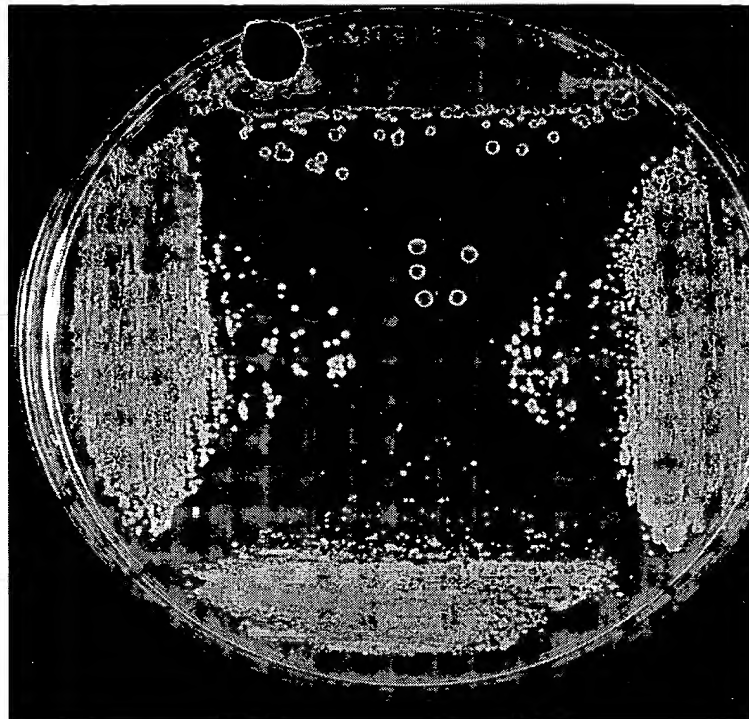


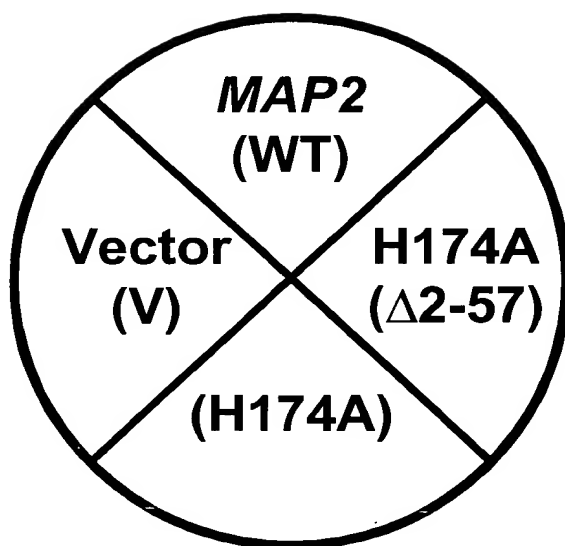
Figure 4



**A. Glucose**



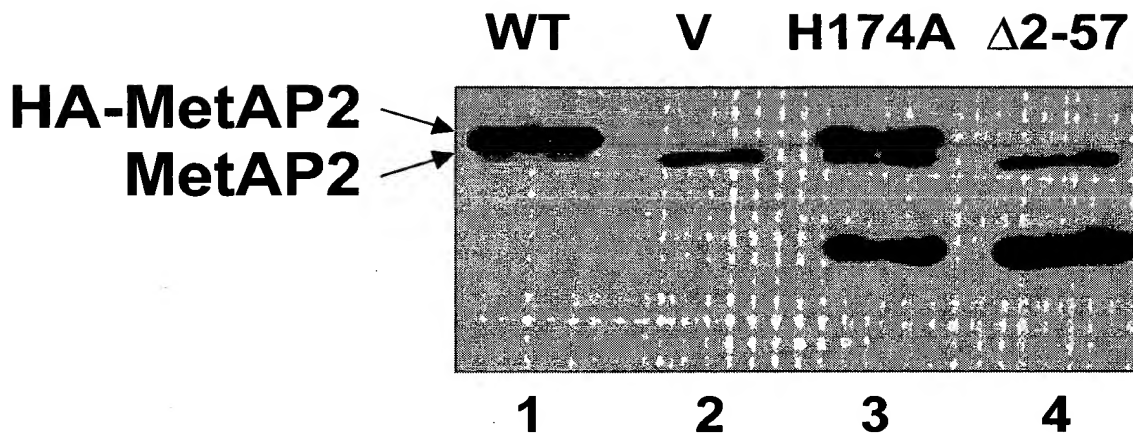
**B. Galactose**



H174A-MetAP2 requires N-terminal residues 2-57 for inhibition of *map1Δ* growth under the *GAL1* promoter.

Figure 5

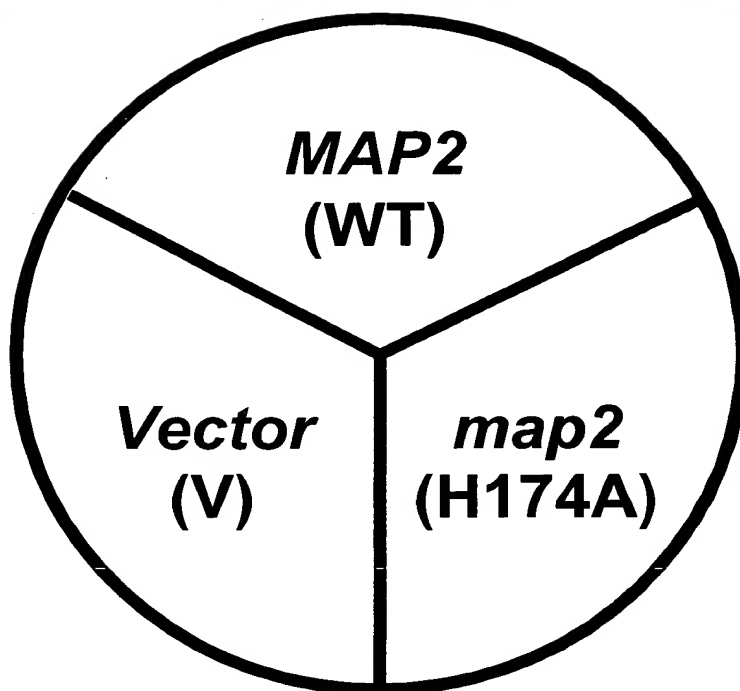
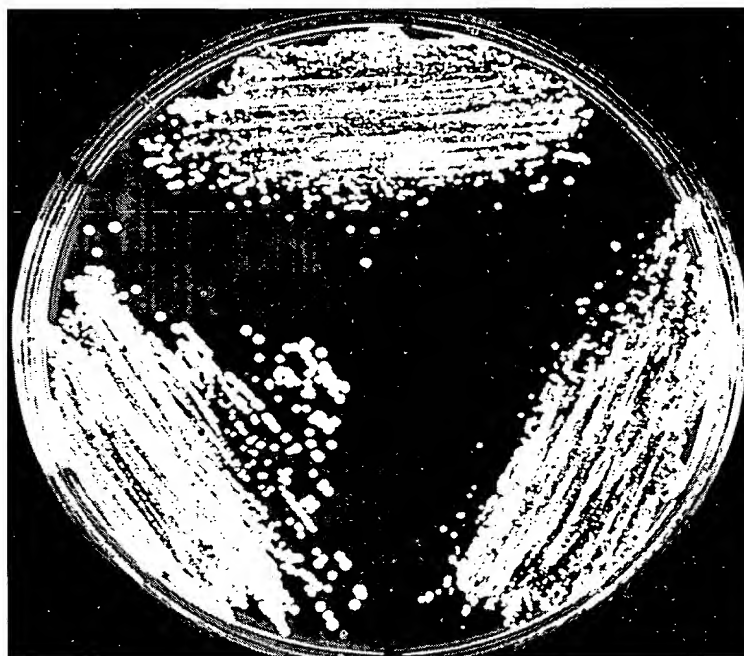
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The steady state levels of each MetAP2 construct are comparable. Immunoblot comparison of HA-MetAP2 wt, HA-MetAP2 H174A, and MetAP2  $\Delta 2-57$  H174A steady state levels in *map1Δ*.

Figure 6

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Overexpression of H174A-MetAP2 under the GPD promoter does not inhibit the growth of map2Δ

Figure 7

hMAP2 cDNA

(anti-sense)  
(sense)

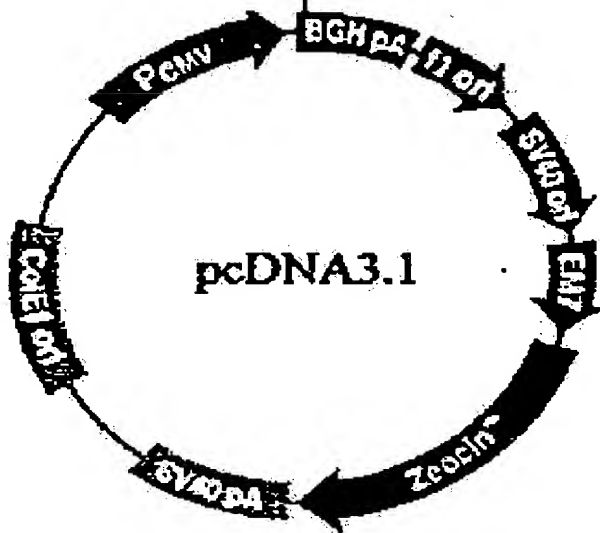


Figure 8

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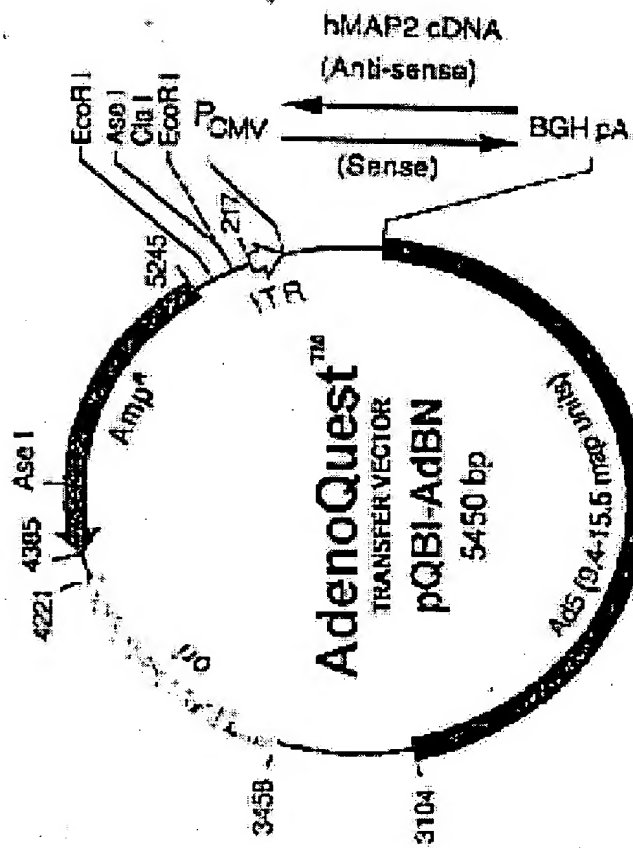


Figure 9

FOOEBO\* EET E7660

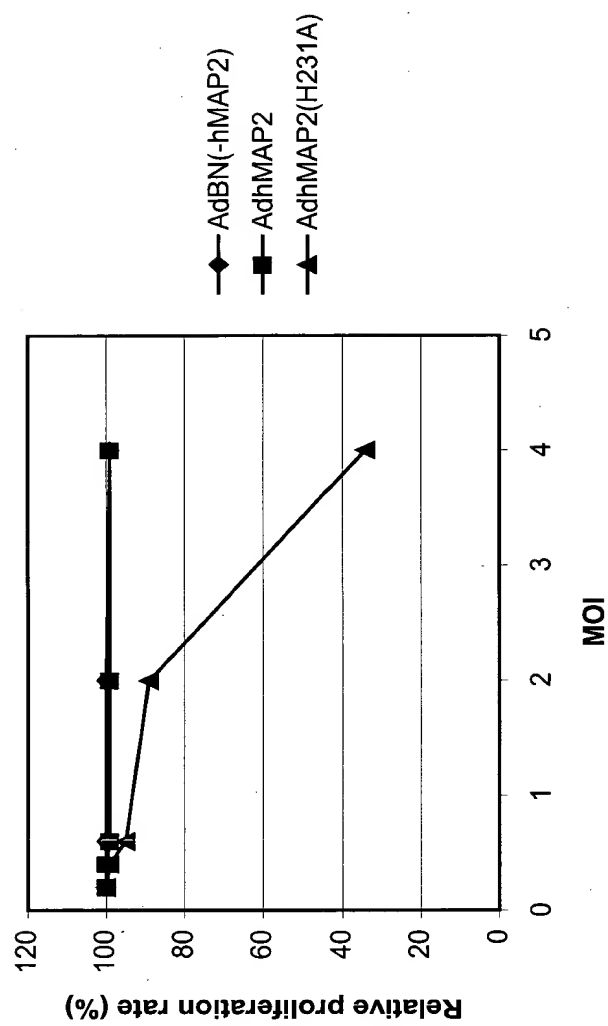


Figure 10

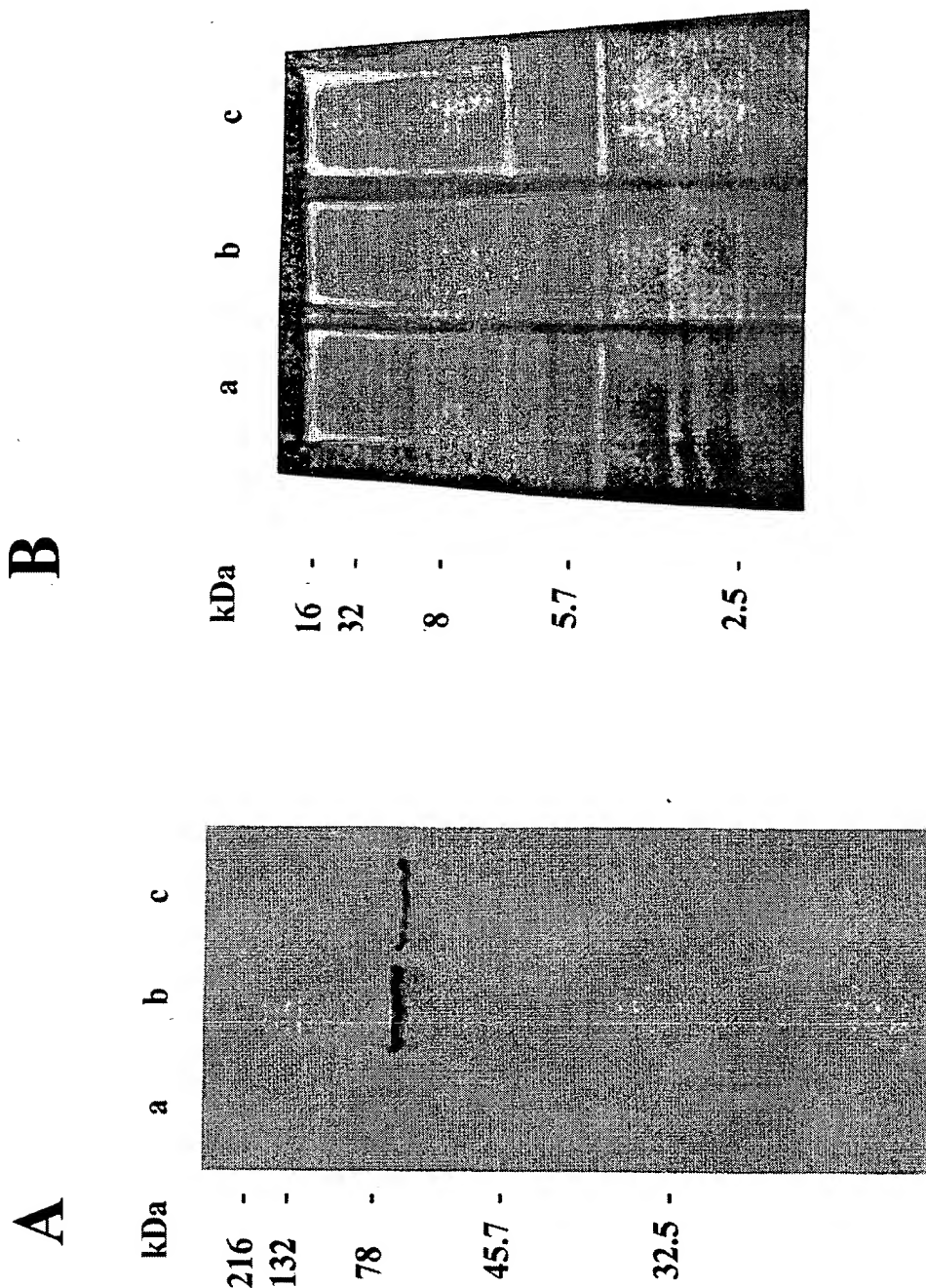


Figure 11